

Siena, November 6, 1950

Dear Prof. Lederberg,

I have sended you the requested strains E.Coli I, E.Coli SG, E.Coli UQ and the mutant strain E.Coli I SG I6 (which was obtained from E.Coli I by treatment ^{after} ~~of the~~ I6 passages with the nucleoprotein fraction isolated from Coli SG).

I have controlled their biochemical activities, which are below summarized (The data are expressed as QO_2 values; Warburg manometric technique).

Strain	Control	+sucrose	+mannitol	+xylose	+lactose	+fructose
E.Coli I	10.3	10.02	37.4	21.5	20.2	21.6
E.Coli SG	9.68	19.2	22.4	20.1	24.5	28.6
E.Coli UQ	12.42	32.07	35.2	26.12	27.9	24.3
E.Coli I SG I6 (mutant)	10.12	18.7	29.1	21.06	26.9	20.9

As you may seen, these strains E.Coli I and E.Coli I SG I6 have maintained unaltered the chemical activities which are described in my paper. The strains E.Coli SG and UQ, which are conserved in the Collection of the Istituto Sieroterapico Vaccinogeno Toscano and were cultivated in the past year on common agar environments, have acquired the ability to oxidize xylose and mannitol respectively, which were missing in the strains which were furnished us by the same Institute an year ago.

I hope that you can be able to obtain good results in your experiments with my strains. I feel very much honoured for your request and for your consideration of my work.

I should be very obliged to you if you could give^{me} information
on your further results.

I remain at your complete disposal for eventual future informa-
tions on the strains which I have sended you.

Thanking you very much, I am

yours, sincerely

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